6.4.5 Testing Expressions

To ensure the logic you provided in a rule is correct, there is a Test Rule feature. This feature simply allows you to confirm that the rule is actually testing the feature you wanted to test. To fully test your rules, it is best practice to enter test data for a test subject.

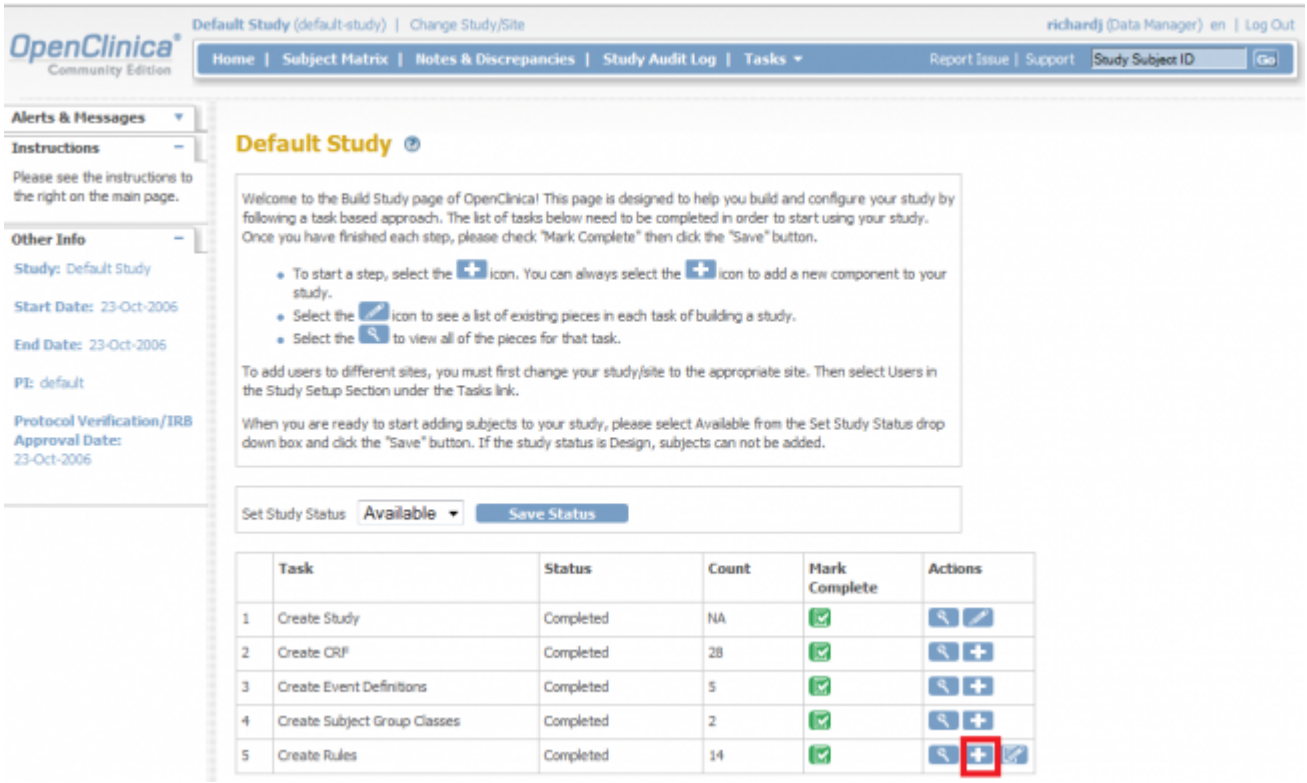
Ensure the rule is uploaded to OpenClinica:

1. Complete writing the rule

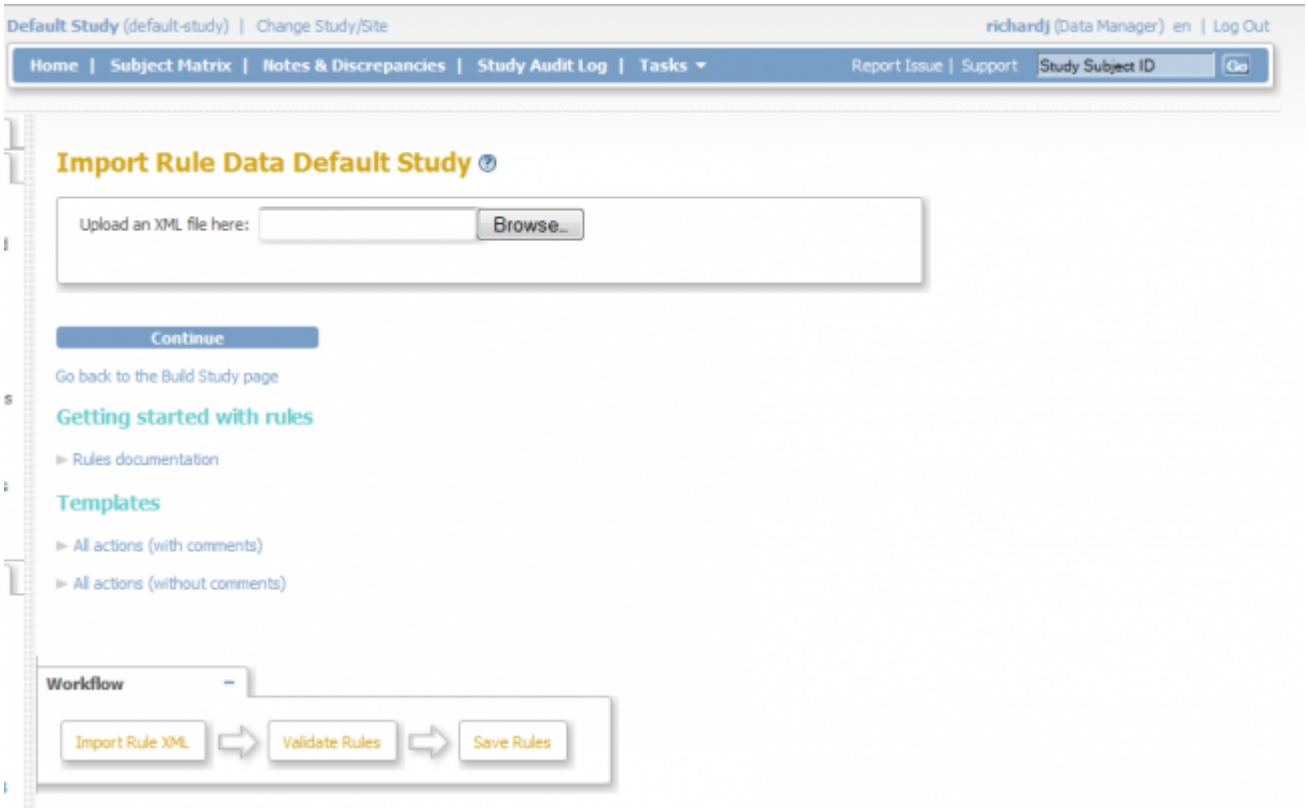
2. Log into OpenClinica

3. Select **Tasks > Build Study**

4. On the Create Rules row of the Build Study page, click



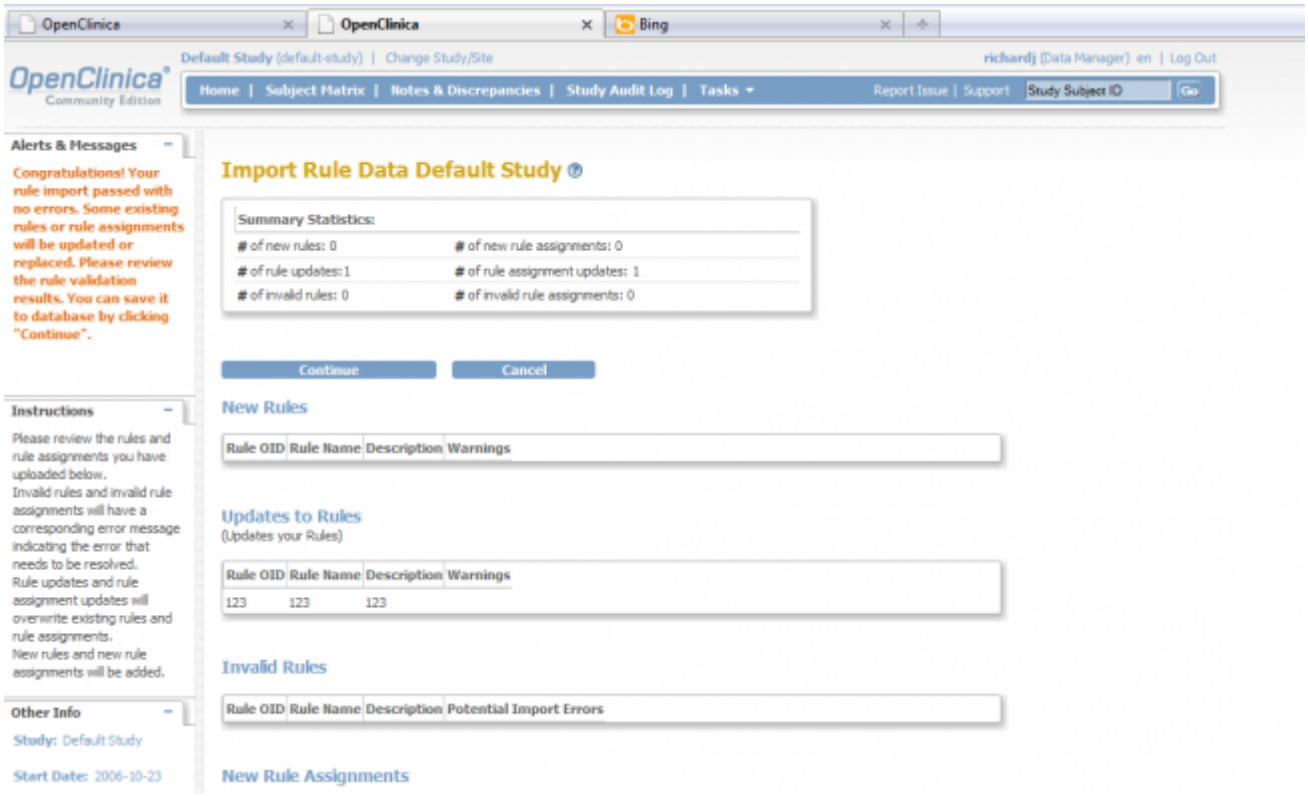
The following window displays:



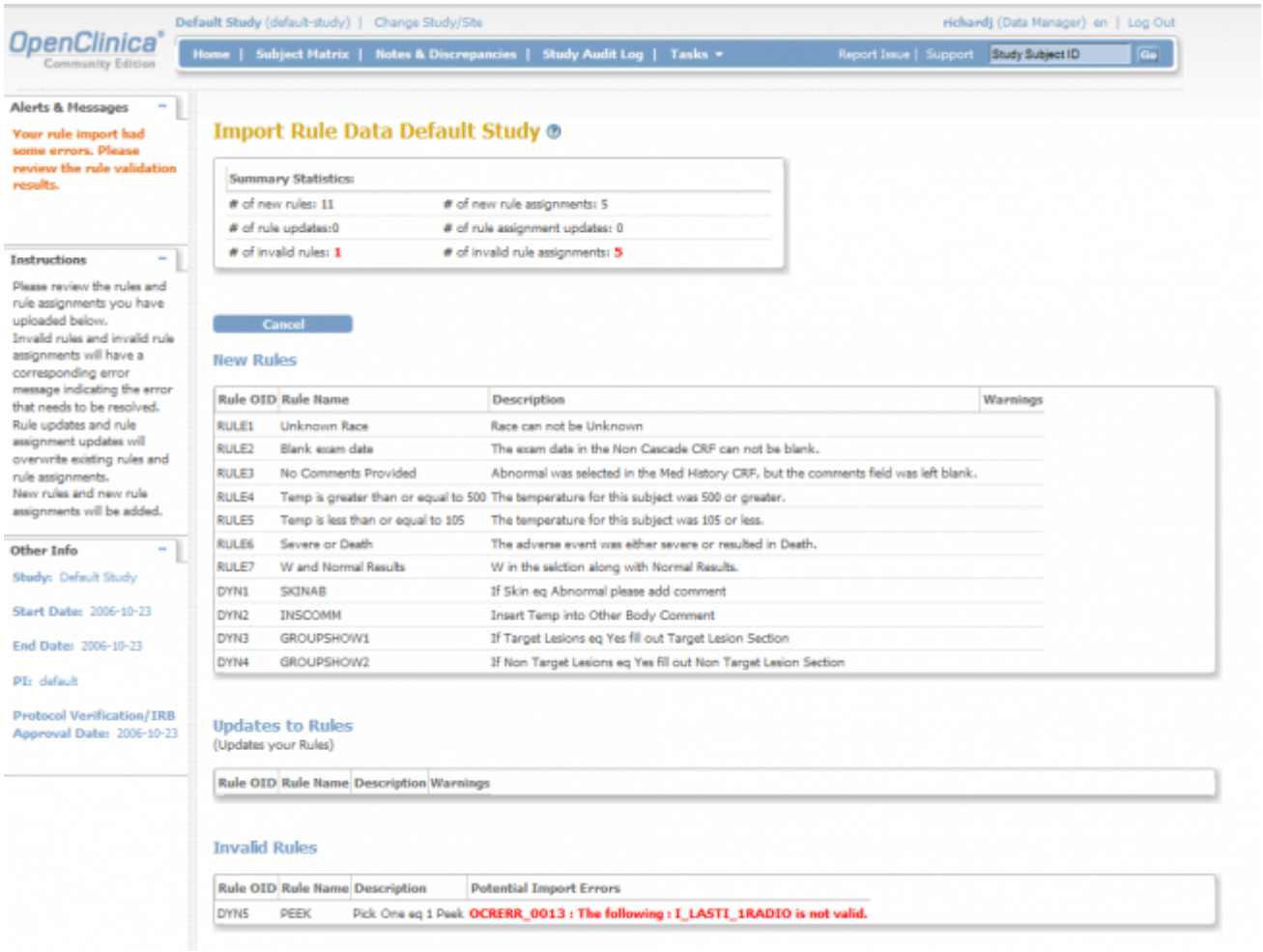
5. Click **Browse**, then locate and **Open** the XML file containing the rule to be uploaded. You may only upload one file at a time.

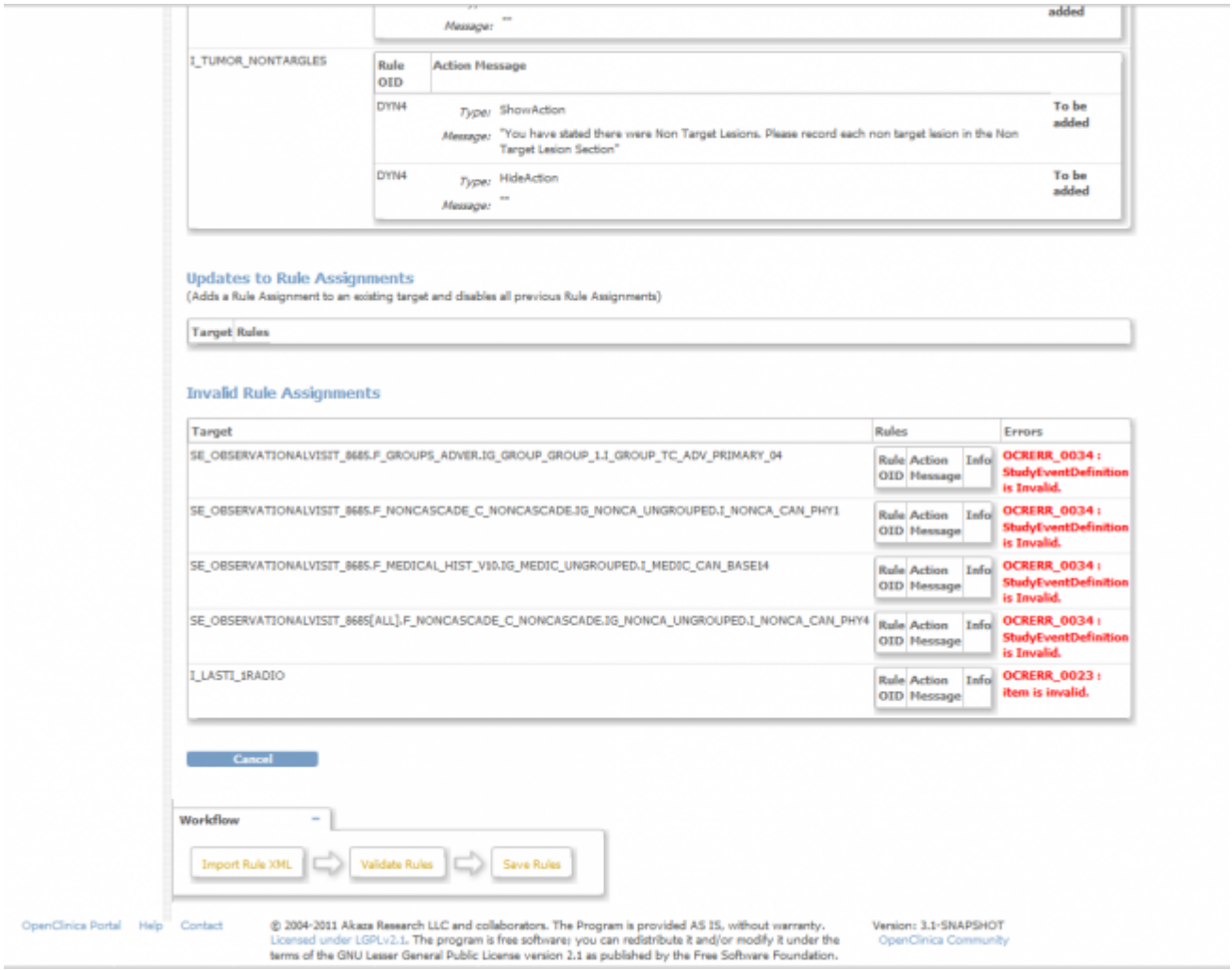
6. Click **Continue**, this will prompt the system to check the validity of the rule

7. If the rule is valid, a successful confirmation message is displayed. To save the rule in OpenClinica, you must select "Continue." Otherwise, click "Cancel."



8. If the rule in invalid, the system displays an error message containing the source of errors. Note that for invalid rules there is no "Continue" button; "Cancel" is the only option at the bottom of the page.


OpenClinica
Community Edition
Default Study (default-study) | Change Study/Site
richardj (Data Manager) en | Log Out
Home | Subject Matrix | Notes & Discrepancies | Study Audit Log | Tasks
Report Issue | Support
Study Subject ID
Go
Alerts & Messages
Your rule import had some errors. Please review the rule validation results.
Instructions
Please review the rules and rule assignments you have uploaded below.
Invalid rules and invalid rule assignments will have a corresponding error message indicating the error that needs to be resolved.
Rule updates and rule assignment updates will overwrite existing rules and rule assignments.
New rules and new rule assignments will be added.
Other Info
Study: Default Study
Start Date: 2006-10-23
End Date: 2006-10-23
PI: default
Protocol Verification/IRB Approval Date: 2006-10-23
Import Rule Data Default Study
Summary Statistics:
# of new rules: 11
# of new rule assignments: 5
# of rule updates:0
# of rule assignment updates: 0
# of invalid rules: 1
# of invalid rule assignments: 5
Cancel
New Rules
Rule OID
Rule Name
Description
Warnings
RULE1
Unknown Race
Race can not be Unknown
RULE2
Blank exam date
The exam date in the Non Cascade CRF can not be blank.
RULE3
No Comments Provided
Abnormal was selected in the Med History CRF, but the comments field was left blank.
RULE4
Temp is greater than or equal to 500
The temperature for this subject was 500 or greater.
RULE5
Temp is less than or equal to 105
The temperature for this subject was 105 or less.
RULE6
Severe or Death
The adverse event was either severe or resulted in Death.
RULE7
W and Normal Results
W in the selction along with Normal Results.
DYN1
SKINAB
If Skin eq Abnormal please add comment
DYN2
INSCOMM
Insert Temp into Other Body Comment
DYN3
GROUPSHOW1
If Target Lesions eq Yes fill out Target Lesion Section
DYN4
GROUPSHOW2
If Non Target Lesions eq Yes fill out Non Target Lesion Section
Updates to Rules
(Updates your Rules)
Rule OID
Rule Name
Description
Warnings
Invalid Rules
Rule OID
Rule Name
Description
Potential Import Errors
DYN5
PEEK
Pick One eq 1 Peek
OCRERR_0013 : The following : I_LASTI_1RADIO is not valid.



9. Repeat step 1-7 as necessary to upload a new file/ update an invalid rule.

Testing Rules Expression in OpenClinica

In order to make creating/managing Rules easier, OpenClinica provides you with a tool to execute rules in a test environment. With the Test Rule page you will be able to modify, edit and run the rules for the desired results. You will be presented with a real time response on the validity of your test rules before uploading them into OpenClinica.

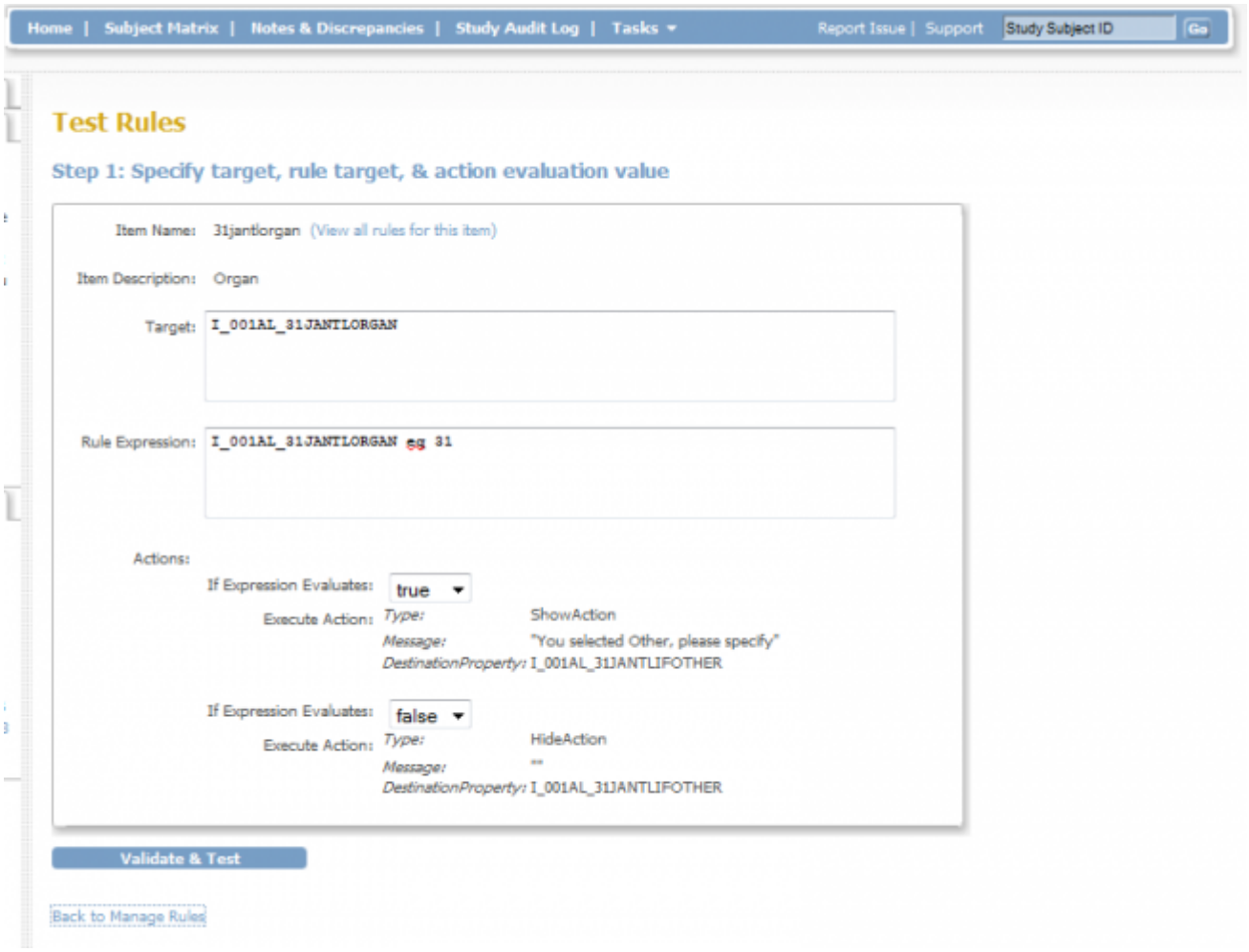
Once the rules get uploaded successfully to OpenClinica, you can verify the validity of the rule by:

1. On the Build Study page, click the View icon to access the Manage Rules for <<Study Name>> page. Click here for more information regarding the Manage Rules page.

2. Locate the rule that you wish to validate and test

3. Under the "Actions" column of that rule, click the "Test" icon

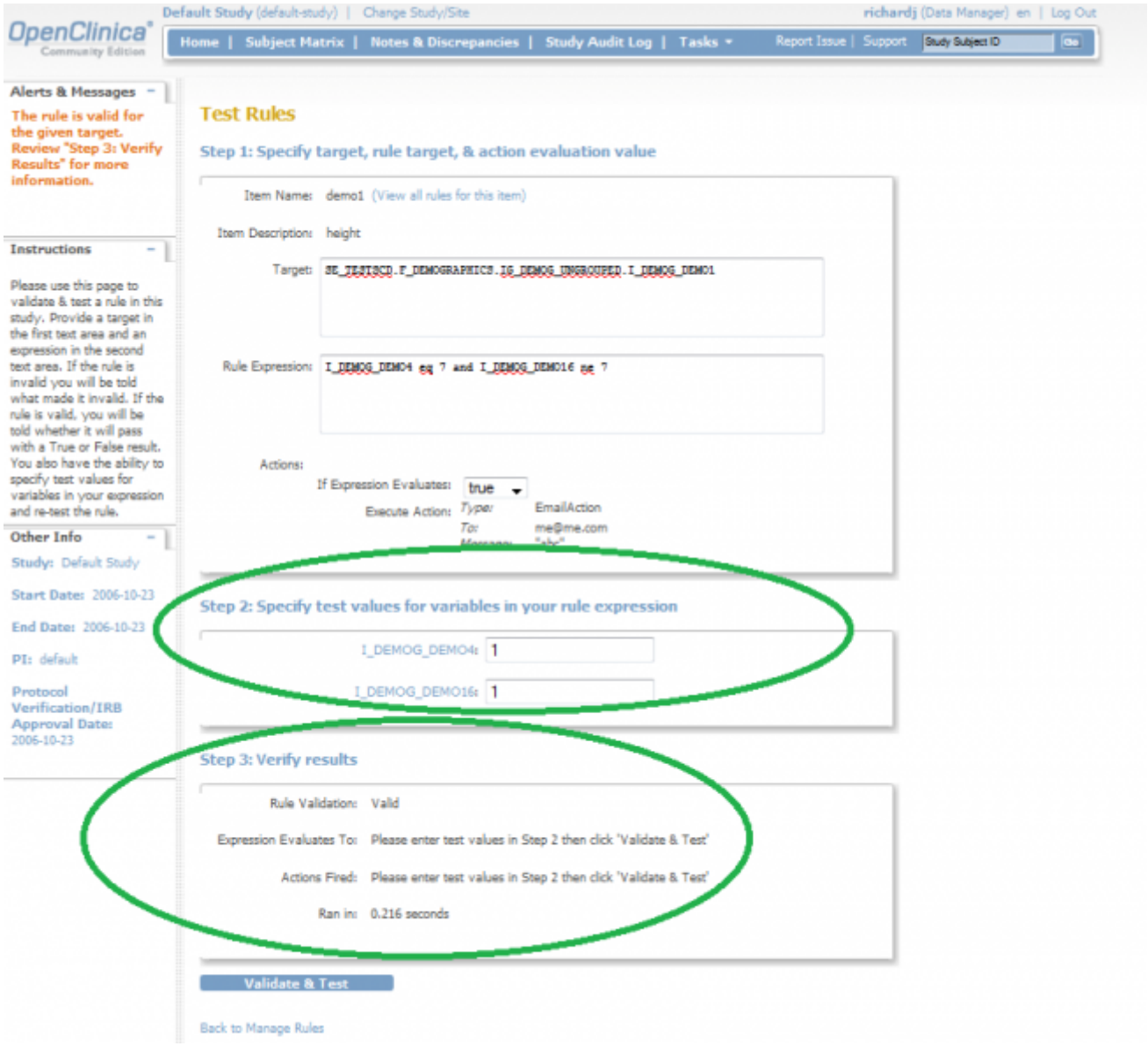
4. You will be prompted to the Test Rules page (see below). The Test Rules page allows you to enter specific information about the rule you want to test.



- Enter Target Name: This would be the same statement element as the Target element in RuleAssignment in the XML file
- Enter the Rule Expression: This would be the same element as the expression element in the RuleDef element in the XML file.
- Select the evaluation action from the drop-down true or false

5. Click Validate and Test

6. **Note**: If the rule is valid, you will be told whether it will pass with a True or False result. You also have the ability to specify test values for variables in your expression and re-test the rule. If the rule is valid, then a successful confirmation message is displayed. Also, addditional sections named "Step 2" and "Step 3" are displayed (see below). If a rule is invalid, OpenClinica will provide you with feedback in the form of an error message with information on why your rule was considered invalid.



7. Now, you can specify the test values for variables in the rule expression at your discreton and verify if the rule functions as expected by clicking "Validate and Save". Repeat this step as necessary.

Approved for publication by Ben Baumann. Signed on 2016-06-15 3:34PM

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